Annual Review of Nutrition
Volume 4, 1984

CONTENTS

PREFATORY ESSAY

Government Regulation of the Integrity of the Food Supply, *Peter Barton Hutt* 1–20

PROTEINS, PEPTIDES, AND AMINO ACIDS

Branched-Chain Amino Acid Metabolism, *A. E. Harper, R. H. Miller, and K. P. Block* 409–54

An Update of Concepts of Essential Amino Acids, *Willard J. Visek* 137–55

VITAMINS

The Function and Metabolism of Vitamin K, *Robert E. Olson* 281–337

Vitamin B_6 Metabolism, *Steven L. Ink and L. M. Henderson* 455–70

Vitamin D: Metabolism and Biological Actions, *Helen L. Henry and Anthony W. Norman* 493–520

INORGANIC NUTRIENTS

Ultratrace Elements in Nutrition, *Forrest H. Nielsen* 21–41

The Nutritional Biochemistry of Selenium, *G. F. Combs Jr. and S. B. Combs* 257–80

Dietary Intake and Bioavailability of Fluoride, *G. Subba Rao* 115–36

LIPIDS

Nutrition and Biochemistry of *Trans* and Positional Fatty Acid Isomers in Hydrogenated Oils, *E. A. Emken* 339–76

CLINICAL NUTRITION

Home Parenteral Nutrition (HPN), *Lyn Howard and Ann V. Michalek* 69–99

The Epidemiology of Vitamin A Deficiency and Xerophthalmia, *J. M. Tielsch and Alfred Sommer* 183–205

The Diagnosis and Treatment of Food Allergy, *Fred M. Atkins and Dean D. Metcalfe* 233–55

Calcium and Osteoporosis, *Louis V. Avioli* 471–91

(*continued*)

MATERNAL/INFANT NUTRITION

Protein and Energy Nutrition During Lactation, *D. A. Sampson and G. R. Jansen* 43–67

METHODOLOGY

Newer Laboratory Methods for Assessing Nutriture of Selected B-Complex Vitamins, *Howerde E. Sauberlich* 377–407

ENERGY METABOLISM

Nutritional Energetics of Animals, *R. L. Baldwin and A. C. Bywater* 101–14

NUTRITIONAL TOXICOLOGY AND PHARMACOLOGY

Adverse Effects of Excessive Consumption of Amino Acids, *N. J. Benevenga and R. D. Steele* 157–81

COMPARATIVE NUTRITION

Nutrition of the Domestic Cat, A Mammalian Carnivore, *M. L. MacDonald, Q. R. Rogers, and J. G. Morris* 521–62

DIET, NUTRITION, AND METABOLIC REGULATION

Effects of Nutritive Factors on Metabolic Processes Involving Bioactivation and Detoxication of Chemicals, *F. Peter Guengerich* 207–31

INDEXES

Author Index 563–93

Subject Index 595–605

Cumulative Index of Contributing Authors, Volumes 1–4 606–07

Cumulative Index of Chapter Titles, Volumes 1–4 608–610